

WHAT IS CLAIMED IS:

1. A coating process of aluminum oxide on the surface of a plastic floor tile comprising:
 - A. A first step of preparing and placing a half-finished plastic floor tile on a feeding table;
 - B. A second step of coating a first layer of UV photo-curing resin on a surface of the half-finished plastic floor tile by means of a set of spraying appliance;
 - C. A third step of forming a layer of aluminum oxide sand on the first not-yet-cured layer of UV photo-curing resin formed in the second step by means of a spray appliance;
 - D. A fourth step of curing the first not-yet-cured layer of UV photo-curing resin formed in the second step with the layer of aluminum oxide sand by light shining by means of one or more UV lamps;
 - E. A fifth step of forming a second layer of UV photo-curing resin on the cured layer of UV photo-curing resin finishing the fourth step by means of a coating appliance;
 - F. A sixth step of curing the second not-yet-cured layer of UV photo-curing resin coated in the fifth step by light shining by means of one or more UV lamps;
 - G. A seventh step of cooling the heat of the second cured layer of UV photo-curing resin finishing the sixth step by means of a heat dispersing device;
 - H. An eighth step of placing and storing the

finished plastic floor tile finishing the seventh step onto a receiving table.

2. The coating process of aluminum oxide on the surface of a plastic floor tile as claimed in Claim 1,
5 wherein said coating appliance is a roller.

3. The coating process of aluminum oxide on the surface of a plastic floor tile as claimed in Claim 1, wherein said coating appliance is one possible to coat paint on a plastic floor tile.

10 4. The coating process of aluminum oxide on the surface of a plastic floor tile as claimed in Claim 1, wherein said spraying appliance is a sandblast machine.

15 5. The coating process of aluminum oxide on the surface of a plastic floor tile as claimed in Claim 1, wherein said two layers of UV photo-curing resin with the layer of aluminum oxide said sandwiched between said two layers of UV photo-curing resin make the finished plastic floor tile provided with excellent property of anti-abrasion and anti-slipping.

20 6. The coating process of aluminum oxide on the surface of a plastic floor tile as claimed in Claim 1, wherein said layer of aluminum oxide sand makes the finished plastic floor tile provided with excellent property of anti-abrasion and anti-slipping.

25 7. The coating process of aluminum oxide on the surface of a plastic floor tile as claimed in Claim 1, wherein said heat dispersing device is a heat-dispersing